Tunable Electrooptic Add-drop Filter Apparatus and Method

Abstract

drop filter apparatus (10) includes two input single mode waveguides (44) and a first beam splitter

In filters fabricated on a birefringent electrooptic substrate (28), a tunable electrooptic add-

(24) connected to the waveguides (44). A polarization converter (42) is connected to the waveguides

(44) after the first beam splitter (24) wherein each polarization converter (42) includes more than one

set of spaced apart, spatially periodic, strain-inducing pads (18). Electrode(s) (30) are provided in

proximity to the polarization converter (42). A second beam splitter (24) is provided connected to

the waveguides (44) after the polarization converter (42). Finally, two output single mode

waveguides (48) are connected to the second beam splitter (24).

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